

## Links to AP1 Lecture Videos , JJames

### Unit 1 Lecture Videos by Topic

Broken link or video??? Text me right away (979-418-0643) so I may repair.

[AP1 1-01 Intro to A&P - How to kick butt in this class](#) 21 min

[AP1 1-02 Anatomy vs. Physiology](#) 16 min

YouTube [Levels of Structural Organization](#) 6 min

[AP1 1-03 Homeostasis, NFBM, PFBM](#) 33 min

[AP1 1-04 Plasma Membrane Structure - Lipids](#) 28 min

[AP1 1-05 Plasma Membrane Structure - Proteins](#) 41 min

[AP1 1-06 Membrane Transport - Relevant Terminology](#) 12 min

YouTube [Transport in Cells; Diffusion and Osmosis](#) 4 min (shared by Tanith Perkins)

[AP1 1-06a Osmosis part 1](#) 13 min

[AP1 1-06b Osmosis part 2 with Osmotic Pressure](#) 14 min

[AP1 1-06c Osmosis part 3 with Tonicity and IV Fluids](#) 21 min

[AP1 1-06d Filtration and Q&A](#) 23 min

[AP1 1-07 Q&A over Passive Membrane Transport Processes](#) 15 min

[AP1 1-08 Active Membrane Transport Processes](#) 16 min

[AP1 1-08B Endocytosis](#) 7 min

[AP1 1-08C Exocytosis](#) 5 min

YouTube [Transport in Cells; Active Transport](#) 3 min (shared by Tanith Perkins)

[AP1 1-09 Four Concepts related to Membrane Transport](#) 12 min

[AP1 1-10 Four Chemical Reactions Keeping you Alive](#) 21 min

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### Unit 2 Lecture Videos by Topic

Broken link or video??? Text me right away (979-418-0643) so I may repair.

[AP1 2-01 ECF vs ICF and RMP](#) 36 min

[AP1 2-02 Altering RMP for Communication](#) 26 min

YouTube [The Chemical Synapse](#) 2 min

YouTube [Neuronal Synapses explained by Khan Academy](#) 16 min

[AP1 2-03 Polarity, Depolarization, Threshold, Repolarization, Hyperpolarization](#) 36 min

[AP1 2-04 Clinical Applications - "What if's"](#) 49 min

[AP1 2-05 Types of Membrane Potentials](#) 10 min

[AP1 2-06 Misc Q&A](#) 10 min

[AP1 2-07 Inflammation and Tissue Repair](#) 40 min

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## Unit 3 Lecture Videos by Topic

Broken link or video??? Text me right away (979-418-0643) so I may repair.

- [AP1 3-01 Covering and Lining Membranes](#) 15 min
- [AP1 3-02A Skin Coloration](#) 10 min
- [AP1 3-02B Skin Cancers](#) 16 min
- [AP1 3-03 Classification of Muscle Tissues](#) 10 min
- [AP1 3-04 "Whole" Muscle vs Motor Unit vs Muscle "fiber"](#) 12 min
- [AP1 3-05 Physiology of Skeletal Muscle Contraction](#) 36 min
- [AP1 3-06 Putting it all Together](#) 10 min
- [AP1 3-07 ATP is Needed for...](#) 10 min
- [AP1 3-08 Fate of the NT ACh](#) 8 min
- [AP1 3-09 Intro to Energy for Contraction"](#) 12 min
- [AP1 3-09.5 Practical Applications "What if..."](#) 21 min
- [AP1 3-10A Production of ATP by Various Methods](#) 43 min
- [AP1 3-10B Production of ATP, version B](#) 20 min
- [AP1 3-10C What Fuel You Burn and When](#) 23 min
- [AP1 3-11 Fatigue, Lactic Acid, EPOC, Heat Production](#) 20 min
- [AP1 3-12 Chemical Composition of Bone](#) 12 min
- [AP1 3-13 Bone Remodeling by Osteoclasts and Osteoblasts](#) 13 min
- [AP1 3-14 Control of Bone Remodeling](#) 21 min
- [AP1 3-15 Response of Bone to Mechanical Stress](#) 25 min
- [AP1 3-16 Misc Q&A](#) 20 min
- YouTube [Muscle contraction sliding filament theory](#) 5 min
- YouTube [Muscle contraction](#) 3 min

## Unit 4 Lecture Videos by Topic

Broken link or video??? Text me right away (979-418-0643) so I may repair.

[AP1 4-01 Components of the Nervous System](#) 27 min

YouTube Divisions and organization of the nervous

system 2min <https://www.youtube.com/watch?v=q3OITaAZLNc&feature=youtu.be>

[AP1 4-02 Neuroglia, Review of Mem. Potentials, Memory](#) 22 min

Note: Neuroglia functions missing from video. Please find in Handouts section.

[AP1 4-03 Blood Flow to the Brain, TIA, CVA, tPA](#) 40 min

YouTube [Emergency Treatments for ischemic Stroke](#) 15 min

YouTube [Cerebral Aneurysms](#) 6 min

YouTube [The Chemical Synapse simplified](#) 2 min

[AP1 4-04A Physiology of Addiction](#) 26 min

[AP1 4-04B Physiology of Depression](#) 27 min

[AP1 4-05 Nerves, Rami, and Nerve Plexuses](#) 16 min

[AP1 4-05A Spinal Reflexes and Dermatomes](#) 16 min

[AP1 4-06 Dermatomes](#) 6 min

[AP1 4-06.5 BIG OYOs for Exam 4](#) 2 min

YouTube [Neurotransmitters Discovered](#) 5 min

[AP1 4-07 Cerebrospinal Fluid and Hydrocephaly](#) 30 min

YouTube CSF production and

flow 5min <https://www.youtube.com/watch?v=asQo6cmOjd0&feature=youtu.be>

[AP1 4-08 ISF of Brain vs CSF; Blood Brain Barrier \(BBB\)](#) 25 min

[AP1 4-09 The Autonomic Nervous System](#) 28 min

YouTube [The ANS - a crash course](#) 9 min

[AP1 4-10 Effects of Parasympathetic and Sympathetic Stimulation on various Target Organs](#) 22 min

[AP1 4-11 Neurotransmitters and Receptors of the ANS](#) 22 min

[AP1 4-12 Clinical Applications - Meds Examples](#) 26 min

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## Unit 5 Lecture Videos by Topic

Broken link or video??? Text me right away (979-418-0643) so I may repair.

- [AP1 5-01 Overview of the Endocrine System](#) 11 min
- [AP1 5-02 Specificity, Up and Down Regulation, Magnitude of Response](#) 10 min
- [AP1 5-03 Controlling the Release of Hormones](#) 18 min
- [AP1 5-04 Control of ECF Osmolality and Volume by ADH](#) 23 min
- [AP1 5-05 More on Osmolality & ADH](#) 23 min
- [AP1 5-06 Control of Metabolism by TH](#) 27 min
- [AP1 5-07 Control of ECF Calcium by PTH \(with some Q&A\)](#) 8 min
- [AP1 5-08 Control of Blood Glucose by Insulin and Glucagon](#) 13 min
- [AP1 5-09 Why be Concerned about Hyperglycemia?](#) 21 min
- [AP1 5-10 Why be Concerned about Hypoglycemia?](#) 12 min
- [AP1 5-11 Diabetes Mellitus - Type 1](#) 43 min
- [AP1 5-12 Diabetes Mellitus - Type 2](#) 29 min
- [AP1 5-13 Gestational Diabetes Mellitus \(GDM\)](#) 7 min
- [AP1 5-14 Diabetes "What ifs..."](#) 20 min
- [AP1 5-15 Control of Blood Glucose by Cortisol](#) 6 min
- [AP1 5-16 Control of ECF Sodium, Potassium, and Blood Pressure by Aldosterone](#) 35 min
- [AP1 5-17 The Stress Responses - Short Term vs. Long Term and Sleep/Wake Cycles](#) 13 min